Section E
Advanced Reactors Transition

PROJECT MANAGERS
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SUMMARY

The Advanced Reactors Transition (ART) Program, WBS 1.12.1.1, PBS RL-TP11, consists of the 309 Building and the Nuclear Energy (NE) Legacies activities.

NOTE: Cost/Schedule data contained herein is as of August 31, 2000. All other information is as of September 20, 2000, unless otherwise noted.

In August the ART mission area technical accomplishments included continued surveillance and maintenance activities on the 309 Building and NE Legacy facilities. Rinsing and drying operations were completed on the loop side of the 337 Building Cold Trap Cooling System, after reaction of residual NaK via the water vapor-nitrogen process and draining of the concentrated sodium/potassium hydroxide. Water vapor-nitrogen process was performed on the residual NaK in the cold trap annulus side of the system. About one pint of NaK was reacted to sodium/potassium hydroxide, based upon an analysis of the amount of hydrogen produced during the reaction phase. The –32 foot level of the 309/PRTR containment building has been cleaned out and surfaces have been painted to eight feet above floor level to minimize potential contamination.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due.

ACCOMPLISHMENTS

- Continued surveillance and maintenance activities on 309 Building and NE legacies.

- Rinsing and drying operations were completed on the loop side of the 337 Building Cold Trap Cooling System, after reaction of residual NaK via the water vapor-nitrogen process and draining of the concentrated sodium/potassium hydroxide. Water vapor-nitrogen process was performed on the residual NaK in the cold trap annulus side of the system. About one pint of NaK was reacted to sodium/potassium hydroxide, based upon an analysis of the amount of hydrogen produced during the reaction phase.

- The –32 foot level of the 309/PRTR containment building has been cleaned out and surfaces have been painted to eight feet above floor level to minimize potential contamination.

SAFETY

Safety data for ART is included in a separate FFTF report.

CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

Conduct of operations data for ART is included in a separate Fast Flux Test Facility (FFTF) report.

ISMS STATUS

The DOE ISMS Phase 2 report was favorable.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No breakthroughs or opportunities for improvement have been identified at this time.

UPCOMING ACTIVITIES

- Dilute concentrated caustic solutions from 337 Building Cold Trap activities and ship drums of solution to Treated Effluent Disposal Facility (TEDF).
- Initiate Fuel Transfer Pit cleanout in the 309 Building/PRTR facility.

COST PERFORMANCE ($M):

	BCWP	ACWP	VARIANCE
Advanced Reactors Transition	$1.5	$1.2	$0.2*

*Rounding

The favorable $0.2M (17 percent) cost variance is due to no significant corrective maintenance activities required.

SCHEDULE PERFORMANCE ($M):

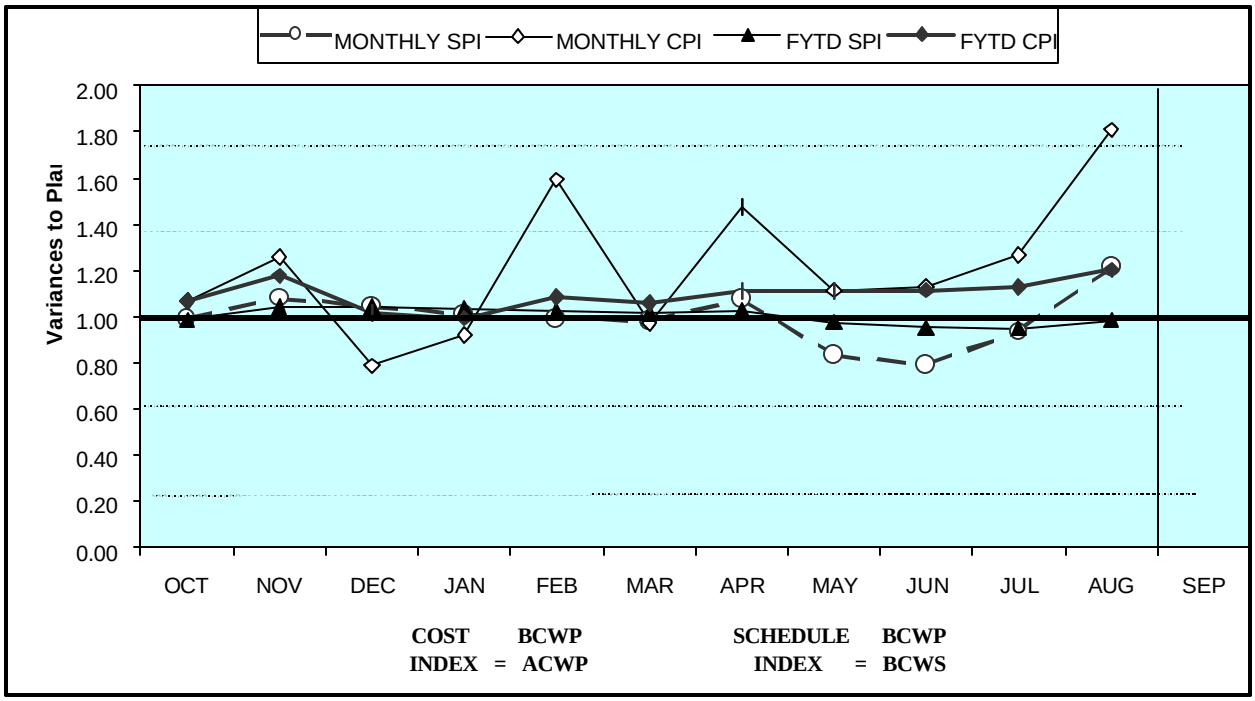
	BCWP	BCWS	VARIANCE
Advanced Reactors Transition	$1.5	$1.5	$0.0

The schedule variance is within acceptable thresholds.

FY 2000 Cost/Schedule Performance – All Fund Types
Cumulative to Date Status – ($000)

By PBS		FYTD BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
PBS TP11 WBS 1.12	Advanced Reactors Transition	$ 1,483	$ 1,461	$ 1,215	$ (22)	-1%	$ 246	17%	$ 1,673	$ 1,381
	Total	$ 1,483	$ 1,461	$ 1,215	$ (22)	-1%	$ 246	17%	$ 1,673	$ 1,381

Cost/Schedule Performance Indices (Monthly and FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	1.08	1.05	1.01	0.99	0.98	1.08	0.83	0.79	0.93	1.22	
MONTHLY CPI	1.07	1.26	0.79	0.92	1.59	0.97	1.47	1.12	1.13	1.26	1.81	
FYTD SPI	0.99	1.04	1.04	1.03	1.02	1.01	1.02	0.98	0.95	0.95	0.99	
FYTD CPI	1.07	1.18	1.02	0.99	1.09	1.06	1.11	1.11	1.11	1.13	1.20	
MONTHLY BCWS	$79	$113	$88	$93	$116	$139	$116	$254	$146	$144	$196	$191
MONTHLY BCWP	$78	$122	$92	$94	$115	$136	$125	$211	$115	$134	$239	
MONTHLY ACWP	$73	$97	$117	$102	$72	$140	$85	$189	$102	$106	$132	
FYTD BCWS	$79	$192	$280	$373	$489	$627	$743	$997	$1,143	$1,286	$1,483	$1,673
FYTD BCWP	$78	$200	$292	$386	$501	$637	$761	$972	$1,088	$1,222	$1,461	
FYTD ACWP	$73	$170	$287	$389	$461	$601	$686	$875	$977	$1,083	$1,215	

COST VARIANCE ANALYSIS: (+$0.2M)

WBS/PBS **Title**

1.12/TP11 **Advanced Reactors Transition**
Description and Cause: All Surveillance and Maintenance (S&M) resources were level loaded for the year. To date, no significant corrective maintenance activities have been required.
Impact: None.
Corrective Action: None.

SCHEDULE VARIANCE ANALYSIS: ($0.0M)

WBS/PBS **Title**

1.12/TP11 **Advanced Reactors Transition**
Description and Cause: None.
Impact: None.
Corrective Action: None.

FUNDS MANAGEMENT
FUNDS VS SPENDING FORECAST ($000)
FY TO DATE THROUGH AUGUST 2000
(FLUOR HANFORD, INC. ONLY)

	Project Completion *			Post 2006 *			Line Items *		
	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance
The River									
1.12 Advanced Reactors (EM)				$ 4,188	$ 3,813	$ 375			
Total Advanced Reactors Operating				$ 4,188	$ 3,813	$ 375			
Total Advanced Reactors Line Item									

* Control Point

ISSUES

There is nothing to report at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT $000	SCH	TECH	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
ART-2000-004	7/18/00	FY '00 to '01 "Bridge Change Request"	2,160	X	X	8/23/00			Pending CCB Approval
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report.							

MILESTONE ACHIEVEMENT

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due.

Tri-Party Agreement / EA Milestones
Nothing to report.
DNFSB Commitments
Nothing to report.

MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date

OVERDUE – 0

FORECAST LATE – 0

PERFORMANCE OBJECTIVES

Nothing to report at this time.

KEY INTEGRATION ACTIVITIES

Nothing to report at this time.